

***LineUp With Math™* Alignment to
Mathematics Grade-Level Standards
Adopted April 2002**

Calculations and Estimations

Common Curriculum Goal (CCG): Numbers:

Understand numbers, ways of representing numbers, relationships among numbers, and number systems.

Grade-Level Standards

M.06.1.A.1(3) Understand rates and ratios as comparisons of two quantities by division.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

CCG: Computation and Estimation:

Compute fluently and make reasonable estimates.

Grade-Level Standards

M.06.1.B.1(4) Solve problems involving common percentages.

***LineUp With Math™* Activities**

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

Measurement

CCG: Direct & Indirect Measurement:

Apply appropriate techniques, tools, and formulas to determine measurements.

Grade-Level Standards

M.06.4.B.1(1) Determine measurements of length and perimeter to the nearest eighth inch (for length less than one foot) and nearest inch (for lengths greater than one foot).

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

M.06.4.B.1(10) Calculate rates (e.g., miles per hour, miles per gallon, people per square mile) to solve problems.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Mathematical Problem Solving

CCG: Conceptual Understanding:

Select, apply, and translate among mathematical representations to solve problems.

Grade-Level Standards

M.06.6.A.1(1) Interpret the concepts of a problem-solving task and translate them into mathematics.

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

CCG: Processes and Strategies: Apply and adapt a variety of appropriate strategies to solve problems.	
Grade-Level Standards M.06.6.B.1(1) Choose strategies that can work and then carry out the strategies chosen.	LineUp With Math™ Activities --Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.
CCG: Communication: Communicate mathematical thinking coherently and clearly. Use the language of mathematics to express mathematical ideas precisely.	
Grade-Level Standards M.06.6.D.1(1) Use pictures, symbols, and/or vocabulary to convey the path to the identified solution.	LineUp With Math™ Activities --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
CCG: Accuracy: Accurately solve problems that arise in mathematics and other contexts.	
Grade-Level Standards M.06.6.E.1(1) Accurately solve problems using mathematics.	LineUp With Math™ Activities --Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.